RESERVED Dave whom

MR Form 3 (Revised 1984)

DIVISION OF OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1, 1985 to Month/Year January 1, 1986

(To be submitted for $\underline{\text{each}}$ mining operation at the end of $\underline{\text{each}}$ calendar year to the Division at this $\underline{\text{address:}}$)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	AMAX Magnesium Corp.	MINE NAME:	Rowley, Uta	ah
ADDRESS:	238 North 2200 West Salt Lake City, Utah 841	16		
PERMIT NUMBE	R AND DATE OF PERMIT: ACT	/045/008 May	25, 1979	
REPRESENTATI	VE:D.H. Wilkinson			
SECTION(S):	TOWNSHIP(S):	2N	RANGE(S):	8W
MINERAL(S) M	INED: Oolites			
STATE AND/OR	FEDERAL MINERAL LEASE NUMB	ERS: None		
SPECIAL USE I	PERMITS AND/OR RIGHTS-OF-WA	Y: None		

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit Roads Facilities Waste Dumps	23
Other	

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	
1976	
1977	
1978	
1979	3
1980	3
1981	3
1982	4
1983	5
1984 & 1985	5 each

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area 1 2 3 etc.
Acreage of Area	5
Depth of Topsoil Removal (inches)	Area mined with front
Depth of Topsoil Replacement (inches)*	end loader. All screen sizes are used. They are
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	then levelled and contained.
Volume Actually Salvaged (ya ³ or ac ft)	
Volume Required for Reclamation (yd ³ or ac ft)	
Surplus or Deficit Volume (yd ³ or ac ft)	
Storage Status (short- or long-term)	38,000 Tons (In-Plant)

Soil Tabulation Chart (c	ontinued)	
Area Affected (in mining	sequence)	Area 1 2 3 etc.
Storage Location		In Plant
Area Where Soil Has Been	Used (if not stored)	
Running Total (all stock	piles) (ya ³ or ac ft)	
Short-term		
Long-term		
*Of previously stripped	area recently reclaimed.	
(a) Tabulation of al placement and illustrati		-pit spoil volumes, date of
Area	Date	Acreage
(e) Tabulation of qu	antity of commodity mine	ed.
	Commodity	Tonnage
(Mined)	Oolites	69,500
illustration on a map, iBuildings	any new construction during the construction during th	ing the report period with ed to:
2. Roads. None		

	3.	Diversion ditches, collector ditches, interceptor ditches, etc. None
	4.	Culverts. None
	5.	Sediment ponds, containment ponds. None
	6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.). None
	7.	Topsoil stockpiles. None
A ,		
(g for mi) Desc tigatio	ription of any environmental problem areas with a proposed plan on and illustration on a map, including, but not limited to:
	1.	Pit stability problems. Area levelled.
	2.	Subsidence. None
-		

	Accidental water discharge, da None	m failure, etc.
4.	Slumping, sliaing or erosion. None	
5.	Revegetation problem areas. None	
	Existence and location of unsu	itable (toxic) overburden
6.	None	readic (texte) everaged.
CLAMATION (a) Tabu lustration	None Lipidation of the acreage reclaimed on a map, distinguishing between	during the report period with
CLAMATION (a) Tabu	None Liation of the acreage reclaimed	during the report period with
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CLAMATION (a) Tabu lustration	None Lation of the acreage reclaimed on a map, distinguishing between Backfilled, graded and contour	during the report period with n:
CLAMATION (a) Tabu lustration	None Lation of the acreage reclaimed on a map, distinguishing between Backfilled, graded and contour Area	during the report period with n: ed areas. Acreage
CLAMATION (a) Tabu	None Lation of the acreage reclaimed on a map, distinguishing between Backfilled, graded and contour Area Mining Area	during the report period with n: ed areas. Acreage
CLAMATION (a) Tabu Llustration 1.	None Lation of the acreage reclaimed on a map, distinguishing between Backfilled, graded and contour Area Mining Area	during the report period with n: ed areas. Acreage

	3.	Seeded area	as.		
			Area		Acreage
		None			
	4.	Reseeded ar	reas (areas p	previously seed	ed, then seeded again).
			Area		Acreage
		None			
(b) to date	Tabul by ye	ation of tot ars with ill	tal acreage n lustration or	reclaimed (seed n an updated ma	ed with permanent seed mix) p:
		Year			Acreage
		1975 1976 1977 1978 1979 1980 1981 1982 1983			
(c) period,	Descr inclu	ription of the	ne reclamatio	on procedures u	sed during the report
	1.	Average der Levelled a	oth of topso nd contoured	il applied. I with bulldoze	r. ()
	2.	Type of see	ea (species)	used for seedi	ng during the report period.

Spring _		Date of seeding during the report period. None
Fall _		
(Hand bi		Seeding procedures used. ast or drilled or any other). None
Pounds f		Rate of seed application. cre of Pure Live Seed (PLS) (if varied, please explain) None
	6.	Type and rate of fertilizer applied. None
	7.	Type and rate of mulch applied. None
	8.	Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.). None
(Cover,	9. dens:	Revegetation test plot information. ity, productivity, etc.) None

10.	Soil analysis results. None
(d) Descr (This should	ription of results of previous revegetation efforts, including: be done as applicable.)
1.	Types (species) of seed that have germinated and are growing. None
2.	Types (species) of seed that are not growing successfully. None
3.	Areas experiencing problems with weeds and weed types. None
4.	Significant erosional problems. None
5.	Areas of unsuitable overburden on the surface as related to revegetation failure. None
6.	Procedures used or proposed to correct these problems. None
10000000	

		Acreage and revegetated			e (upon ins	spection b	y the State) of
AI	ea	None		Date			Acreage
						10	
	8.	Results of None	soil anal	ysis.			
period, replace	includ ment, s	ing itemize	ed costs for	or each r each t	operation type of dis	(i.e., gr sturbance	g the report ading, topsoil (i.e., spoil,
					Acres		Cost/Acre
 Bac Con Top See A. B. 	ding Seedbe Mulch Fertil Seed	placement d Preparati	Lon		5		\$500 Included Included Included None None
BOND IN	FORMATI	ON:					
Α.	Divis chang actua secti furth	ion's appro es to the M l/estimated on above.	oval of the MRP have of reclamat The date of bility for	e Mining ccurred ion cost of the 1	g and Recla , including ts as outli release of	emation Pl g a detail lned in th revegetat	ired in the an (MRP) or if ed itemization or e RECLAMATION ed areas from f applicable,
Present	Bond		<u>Amount</u> \$15,278.08		Type eclamation 640 Acre	Bond	ate Posted 5-13-79

Increased disturbance,	if any:	
Increased Bond Amount (a	attached reclamation estimate)	
Acres	Bond Amount Released	<u>Date</u>
DITIONAL INFORMATION:		

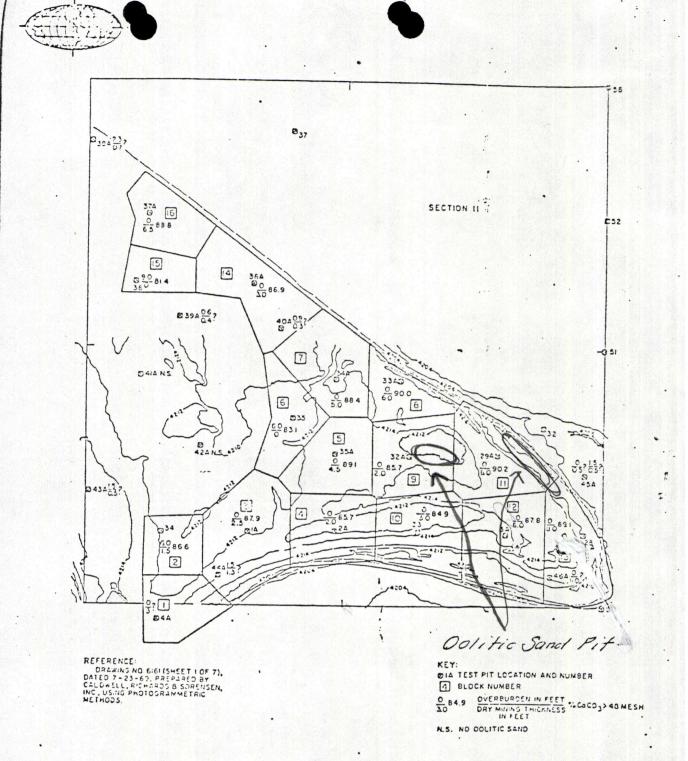
Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).(b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- 2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
- 3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
- 5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 - 1. Lanafill sites.
 - 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

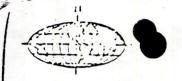


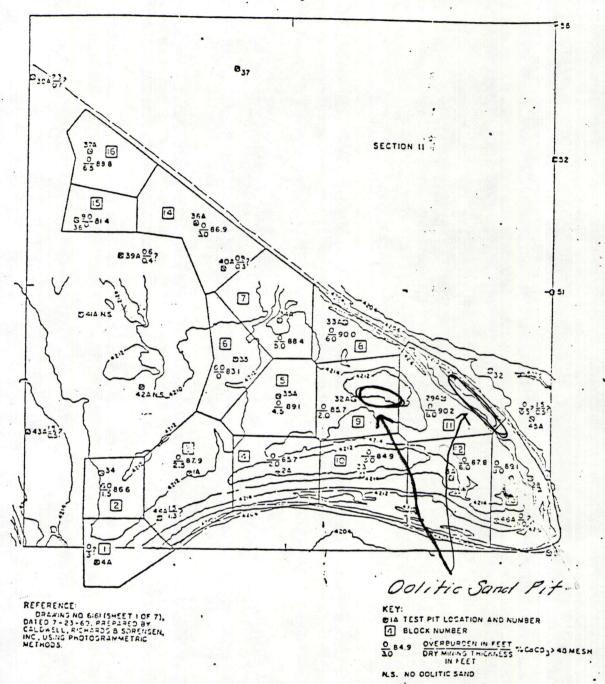
ORE RESERVE BLOCKS OOLITIC SAND DEPOSIT SECTION II

5CO 'O 500 1000

100124

DAMES & MOORE





ORE RESERVE BLOCKS
OOLITIC SAND DEPOSIT
SECTION II

500 0 500 1000

100125

DAMES & MOORE